

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IL2004/000502

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 G01N33/543 G01N27/414 G01N33/68		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 G01N		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) PAJ, EPO-Internal, INSPEC, BIOSIS, EMBASE, WPI Data, COMPENDEX		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 07, 29 September 2000 (2000-09-29) & JP 2000 097899 A (NTT ADVANCED TECHNOLOGY CORP; NIPPON TELEGR & AMP; TELEPH CORP & LT; NTT), 7 April 2000 (2000-04-07) abstract	1
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 23, 10 February 2001 (2001-02-10) & JP 2001 156398 A (CANON INC), 8 June 2001 (2001-06-08) abstract	1
-/-		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family		
Date of the actual completion of the international search  12 October 2004		Date of mailing of the international search report  03/11/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer  Komenda, P

## INTERNATIONAL SEARCH REPORT

Int. Patent Application No  
PCT/IL2004/000502

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MA X L ET AL: "Microstructural characterization of Si cones fabricated by Ar<+>-sputtering Si/Mo targets" JOURNAL OF CRYSTAL GROWTH, NORTH-HOLLAND PUBLISHING, AMSTERDAM, NL, vol. 234, no. 4, February 2002 (2002-02), pages 654-659, XP004313082 ISSN: 0022-0248 the whole document ---	1
P,X	WO 03/104789 A (UNIV NEW JERSEY MED ; UNIV RUTGERS (US)) 18 December 2003 (2003-12-18) paragraphs '0057!,'0059!; claim 9; figure 2 ---	1
A	FROMHERZ PETER: "Electrical interfacing of nerve cells and semiconductor chips." CHEMPHYSICHEM: A EUROPEAN JOURNAL OF CHEMICAL PHYSICS AND PHYSICAL CHEMISTRY, vol. 3, no. 3, 12 March 2002 (2002-03-12), pages 276-284, XP002300227 ISSN: 1439-4235 cited in the application the whole document ---	1-43
A	FROMHERZ P: "Semiconductor chips with ion channels, nerve cells and brain" PHYSICA E ELSEVIER NETHERLANDS, vol. 16, no. 1, January 2003 (2003-01), pages 24-34, XP002300226 ISSN: 1386-9477 abstract ---	1-43
A	WO 01/25769 A (SOPHION BIOSCIENCE AS) 12 April 2001 (2001-04-12) abstract; figures 3B-3D -----	1-43

# INTERNATIONAL SEARCH REPORT

Information on patent family members

In: International Application No

PCT/IL2004/000502

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 2000097899	A	07-04-2000	JP 3515908 B2	05-04-2004
JP 2001156398	A	08-06-2001	CN 1274974 A	29-11-2000
			US 6656759 B1	02-12-2003
WO 03104789	A	18-12-2003	WO 03104789 A1	18-12-2003
WO 0125769	A	12-04-2001	AU 7406500 A	10-05-2001
			CA 2385482 A1	12-04-2001
			CN 1377464 T	30-10-2002
			WO 0125769 A2	12-04-2001
			EP 1221046 A2	10-07-2002
			JP 2003511668 T	25-03-2003
			NZ 518057 A	30-01-2004
			US 6682649 B1	27-01-2004
			US 2004055901 A1	25-03-2004